



REFERENCE DRAWINGS	
LUCY DOS I & E SWITCH GENERAL ARRANGEMENT	A2-186743
HV PIT CONSTRUCTION AND SUPPORTING STEELWORK	B1-191085
EMERGENCY PULL-OUT GEAR OPERATING EQUIPMENT TYPICAL ARRANGEMENT	B1-18894
EMERGENCY PULL-OUT GEAR OPERATING EQUIPMENT ARRANGEMENT & DETAILS	B1-16500

NOTES

- THIS DRAWING OUTLINES THE WORK REQUIRED TO INSTALL A LUCY DOS I & E SWITCH OVER THE HV SWITCHGEAR PIT SHOWN ON DRAWING 191085 AND IS TO BE READ IN CONJUNCTION WITH THE SUBSTATION LAYOUT DRAWING AND ENERGY AUSTRALIA'S NETWORK STANDARDS.
- THIS DRAWING DOES NOT SHOW CABLE SCREEN EARTHING OR CONNECTION OF THE HV SWITCH TO THE SUBSTATION EARTH BAR. REFERENCE TO NETWORK STANDARDS 114 AND 177 IS REQUIRED FOR THIS INFORMATION.
- THE HV SWITCH IS TO BE MOUNTED ON THE SUPPORTING STEELWORK DETAILED ON DRAWING 191085 TO THE DIMENSIONS SHOWN ON THIS DRAWING.
- THE SPACING OF THE SUPPORTING STEELWORK IS TO BE ADJUSTED TO SUIT THE HV SWITCH.
- THE SUPPORTING STEELWORK IS TO BE DRILLED ON SITE TO SUIT THE HV SWITCH.
- ALL FLEXIBLE CONDUIT AND CABLE GLANDS ARE TO BE GREY 20mm MEDIUM DUTY UV STABILISED TO AS 2053.
- THE CT'S FLEXIBLE CONDUITS ARE TO BE RUN VIA THE SHORTEST POSSIBLE ROUTE AND SUPPORT PROVIDED WHERE NECESSARY WITH SUITABLE CONDUIT CLAMPS. IF UNSUITABLE FORCES ARE TRANSFERRED ONTO EQUIPMENT VIA THE FLEXIBLE CONDUIT ADDITIONAL CLAMPS SHOULD BE USED.
- FLEXIBLE CONDUITS ARE TO BE TERMINATED ON THE HV SWITCH AND CT JUNCTION BOX VIA SUITABLE GLANDS. FOR THE PROTECTION CT'S, THE CONDUIT IS TO BE CLAMPED ONTO THE CT FITTINGS PROVIDED. THE CT JUNCTION BOX IS TO BE DRILLED TO ACCEPT THE GLANDS.
- THE PROTECTION CT'S SUPPORTING STEELWORK IS TO BE FIXED TO THE HV SWITCH SUPPORT STEELWORK WITH SUITABLE BOLTS, NUTS, AND WASHERS.
- THE PROTECTION CT'S ARE TO BE FIXED TO THE PROTECTION CT'S SUPPORTING STEELWORK (UNISTRUT P1000) VIA THREADED RODS AND SUITABLE UNISTRUT NUTS. THE RODS ARE TO BE FITTED TO THE DIAGONALLY OPPOSING HOLES OF THE CT'S ONLY.
- THE BASE OF THE JUNCTION BOX IS TO BE FIXED TO THE PROTECTION CT SUPPORTING STEELWORK WITH SUITABLE COUNTER-SUNK SCREWS, AND UNISTRUT NUTS.
- THE OPERATING HANDLE IS TO BE DRILLED TO ACCEPT A "D" SHACKLE AS SHOWN IN DETAIL 1. THE TRIPWIRE IS TO BE CONNECTED TO THE "D" SHACKLE AS SHOWN ON DRAWING 18894.
- IF HV SWITCH SETOUT RESULTS IN AN UNCOVERED SPACE BETWEEN THE SWITCH AND THE END OF THE PIT, THE SPACE MUST BE COVERED WITH 6mm FLOOR PLATE. REFER TO DRAWING 191085 FOR FURTHER DETAILS.

MATERIAL LIST

ITEM No	DESCRIPTION	REMARKS	No. OFF
1	LUCY DOS I & E SWITCH		1
2	SUPPORTING STEELWORK	REFER DRAWING 191085	2
3	HOLD DOWN BOLTS	M16 GALVANISED BOLTS, NUTS & WASHERS	4
4	HV CABLES	AS PER DESIGN INFORMATION PACKAGE	9
5	CABLE CLAMPS	AS PER NETWORK STANDARD 177	3
6	PROTECTION CT SUPPORTING STEELWORK	1280mm LONG - UNISTRUT P1000 (SEE NOTE 11)	2
7	PROTECTION CT'S	AS PER NETWORK STANDARD 114	3
8	CT JUNCTION BOX ASSEMBLY		1
8a	BOX	CLIPSAL 265/5 JUNCTION BOX	1
8b	TERMINAL MOUNTING RAIL	UTILUX H2233 170mm LONG	1
8c	TERMINALS	UTILUX H3820	9
8d	END PLATES	UTILUX H3821	2
8e	CLAMPS	UTILUX H2232	2
8f	CABLE GLANDS	TO SUIT FLEXIBLE CONDUIT. REFER TO NOTE 8.	4
9	PROTECTION CT LEADS FLEXIBLE CONDUIT	REFER NOTES 6, 7, 8 & 10.	1
10	OPERATING HANDLE		1
10a	M6 BOLT	SUITABLE M6 x 40mm LONG, STAINLESS STEEL 316.	1
10b	M6 FLAT WASHER	SUITABLE M6 FLAT, STAINLESS STEEL 316.	4
10c	M6 D SHACKLE	SUITABLE 6mm, 25mmX42mm, STAINLESS STEEL 316	1
10d	M6 NYLOC NUT	SUITABLE NYLON INSERT LOCK NUT.	1
11	TRIPWIRE TERMINATION CABLE	REFER TO DRAWINGS 16500 & 18894.	1

CAD DRAWING
DO NOT MANUALLY AMEND
AMENDMENTS
1. NEW DRAWING BORDER
ADDED
HV PIT AND SUPPORTING
STEELWORK AMENDED AS
PER DWG 191085.
CABLE CLAMPS UPDATED TO
NETWORK STANDARD.
NOTE 13 ADDED.
P/N: PM02-02010-1-5-1
DATE: 16-11-2011
DRAWN: N. CHARAN
CHECKED: CHABUTT
APPROVED: P. JARVIS

CONSTRUCTION



NETWORK STANDARD
DISTRIBUTION OPERATIONS & RELIABILITY
LOGISTICS AND DISTRIBUTION ENGINEERING
25-27 POMEROY STREET, HOMEBSH

SCALE	AS SHOWN
DESIGNED	-
DRAWN	M. WENHAM/M. COUPLAND
CHECKED	P. JARVIS
APPROVED	M. THOMSON
DATE	02/04/2009
PROJECT NUMBER	209/1/55/1
PROJTRAK NUMBER	-

CUSTOMER CHAMBER TYPE SUBSTATIONS
INSTALLATION OF LUCY DOS I & E SWITCH

SIZE A1 DRAWING No 192909 SHEET 1 AND 1